Washington State Building Code Council • Code Change Cycle 2015

2015 Plumbing Proposals

15-P05 DOH

UPC 601.1

Backflow-general

Log #	Proponent	Code	Title or Subject		TAG Review	w	Committee
Log #		Section(s)	Title of Subject	Meet Criteria?	Economic Impact	Recom- mendation	Action
15-P01	Mike Kennedy	WSEC C405 new section	Booster pumps				
C40	5.10 Service Wa	ter Pressure Bo	oster Systems. Service v	water pressu	re booster sy	stems shall be	designed
such	<u>ı that</u>					_	
			shall be used to vary pum				
			critical fixture(s) that de			uired, or logic	shall be
			oint to simulate operation for the purpose of reduci			ha watar sunn	lied by any
			er system, except for safe		ure or air or i	ine water supp	iled by ally
			all operate when there is		vater flow.		
		1	<u>-</u>	lio service i			
15-P02	DOH	UPC 407.3	Hot water/public lavs				
5-P03	DOH	UPC 408.3	Tub/shower control valves				
	ided with individua ng valve type that p	l control valves of rovide scald and the	ation Control Valves. Shother pressure balance, therm hermal shock protection for	nostatic, or co	mbination <i>pr</i>	essure balance/	
mixi valv shov in ac man (43°	vers, where supplied ecordance with ASS ufacturer's instruction C). Where separate	I with a single tem E 1069. Handle po ons to deliver a ma hot and cold water	and in accordance with AS perature-controlled water so position stops <i>shall</i> be provided water setting is provided, the hot water setting le control for meeting this provided.	SSE 1016 or A upply pipe, sh led on such va g of 120°F (49 shall not exce	ASME A 112. all be control alves and shal between	18.1/CSA B 125 led by a mixing l be adjusted pe 105°F (40°C) at	5.1. <i>Gang</i> y valve that is r the ad 110°F
mixivalv shov in ac man (43°	vers, where supplied ecordance with ASS ufacturer's instruction C). Where separate	I with a single tem E 1069. Handle po ons to deliver a ma hot and cold water	and in accordance with AS perature-controlled water so sition stops <i>shall</i> be providuximum mixed water setting is provided, the hot water setting	SSE 1016 or A upply pipe, sh led on such va g of 120°F (49 shall not exce	ASME A 112. all be control alves and shal between	18.1/CSA B 125 led by a mixing l be adjusted pe 105°F (40°C) at	5.1. <i>Gang</i> s valve that is r the <u>nd 110°F</u>

			vern the materials, design, a and methods and devises us				ncluding
15-P06	DOH	UPC 609.9	Disinfection of potable water system				
perfe		ry certified for drii	it is shown by when a standard water in Washington sts in the system.				
15-P07	DOH	UPC 611.1	Drinking water treatment units				
sys <u>wat</u> <u>und</u>	tems <i>shall</i> comply er treatment unit on	with NSF 58. Dri a building that ser WAC. The applic	t systems <i>shall</i> comply with inking water distillation systems the public may result in tability of chapter 246-290 very water.	tems <i>shall</i> co the building	mply with NS being regulat	SF 62. The insta ed as a public v	llation of a vater system
15-P08	DOH	UPC 612.2	Sprinkler protection				
inclu <i>plun</i> syste	nde the use of antifre tabing fixtures. A star em. A backflow prev	eze. A multipurpo nd-alone sprinkler venter shall not be	shall apply to stand-alone a use fire sprinkler system shall system shall be separate and required to separate a stand l is in accordance with the results.	all provide po d independen alone sprink	table water to at from the po ler system fro	both fire spring table water distorm the water dist	klers and ribution
15-P09	Dave Cantrell	UPC 908.2.4	Horizontal wet vent				
			xture drain or trap arm come e horizontal wet vent.	nection to the	- <i>wet vent</i> shal	l be downstrear	n of
15-P10	Steven Huff	UPC New Section 912	Air admittance valves				
912. (AA	V) where conventio	anch line plumbing nal venting of the	g vents shall be permitted to fixtures would be impractic a horizontal branch drain.	al or burdens	ome. AAV's	shall only vent	fixtures that

- waste systems as described in Chapter 8 of the Uniform Plumbing Code unless specifically approved for such use by the manufacturer.
- 912.2: Air admittance valves shall conform to ASSE 1051. AAV's shall be installed in accordance with the requirements of this section and the manufacturer's installation instructions. The AAV shall be rated in accordance with the standard for the size of vent to which it is connected.
- 912.3: AAV's shall be located a minimum of four (4) inches above the branch drain or trap arm being vented and a minimum of six (6) inches above any insulation material. The AAV shall be located within the maximum developed length permitted for the vent in accordance with Chapter 7, Table 7-5. AAV's shall not be located in spaces utilized as a supply or return air plenum. AAV's shall not be used for venting a sump or ejector pump without written approval of the manufacturer.
- 912.4: AAV's shall be installed in accessible locations. The valve shall be located within a ventilated space that allows air to enter the valve, such as below a kitchen or bathroom cabinet. The AAV may be installed in a wall only if it is provided with a ventilated access panel and is approved for such installation by the manufacturer.
- 912.5: Relief Vent: A relief vent is not required on horizontal branch drains which connect to the drainage stack or building drain within four (4) branch intervals (stories) from the top of the stack. All other horizontal branch drains shall be provided with a relief vent that shall extend outdoors to the open air or shall connect to a vent stack or stack vent that terminates

			all connect to the horizonta ed to the horizontal branch				
			4-inch in diameter, and sha				
			The relief vent shall be per				
		,	,				
15-P11	DOH	UPC	Allowable use				1
		1501.1.1					
1501	.1.1 Allowable Use	of Alternate Wa	ter. Where approved or req	uired by the A	Authority Hay	ing Jurisdiction	alternate
			gray water, and on-site tre				
			dentified in this chapter. Re				
	or other indoor use in odifications.	any residential pr	coperty or dwelling unit wh	ere residents l	nave access to	plumbing syste	ms for repairs
01 111	odifications.						
15-P12	DOH	UPC 1501.2	Alt. water source				
10 112	DOII	01 0 1301.2	design				1
450	100 / D :				·		
			r source systems shall be monstrates competency t				
			iction. Components, pipir				
syst	em <i>shall</i> be <i>listed</i> .	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,	,		
	eptions:		Const. Cond. Cond. Const. Co.				
			trequired to design <i>gray</i> (0.011 L/s) for single fan				iarge
(2) /	\ registered design t	orofessional is not	t required to design an <i>or</i>	r site treated	nonpotable w	ater system for	single family
			e capacity of 250 gal/d (0		•	•	o ,
		Г	Г	T			Γ
15-P13	DOH	UPC Table	Water source testing				1
		1501.5					1
			TABLE 1501.5	TION AND 14			
	MINIMUM A	LIERNAIE WAIE	R SOURCE TESTING, INSPEC			FREQUENCY	
DESCRIPTI		screens and renla	ce (where necessary).	Every 3 mon			
Inspect a	nd verify that disinfe	ction, filters and w	ater quality treatment			acturer's instruc	tions, and
	and systems are ope ality requirements as			the Authority	Having Juris	diction.	
Jurisdiction		determined by the	e Authority Having				
	umps and verify ope					every 12 month	
	alves and verify ope ressure tanks and ve					l every 12 month I every 12 month	
Clear del	oris from and inspect		cking devices, and			l every 12 month	
verify ope	eration. aution labels and ma	arking		Δfter initial in	etallation and	l every 12 month	ns thereafter
			er irrigation systems.			ilch depth and p	
Cross so	nnaction increation	and toat*		and rui		l every 12 month	as thereafter
	nnection inspection a		the presence of the Authori			•	
of this ch		iii bo poriorinou iii	and production of and manner	iy muving suri.	arenon in acc	ordanoo wiiin inc	roquiromonio
15-P14	DOH	UPC	Maintenance log				1
		1051.5.2					1
1501 5	2 Maintananaa I a	a A maintanana	log for arguingten and and	site treated ===	nnotable wet	ar existems is made	mired to hove
			log for gray water and on-sand shall be maintained by t				
proper	ty owner or designat	ed appointee shall	ensure that a record of test	ting, inspectio	n and mainte	nance in accorda	ance with
Table 1	1501.5 is maintained	l in the log. The lo	g will indicate the frequence	cy of inspection	n and mainte	nance for each s	ystem.

15-P15	DOH	UPC 1501.6	O&M manual				
system design (1) De (2) Ins (3) De (4) De (5) Ap	ns required to have a her. The operating and tailed diagram of the structions on operatinatials on maintaining tails on deactivating	permit in accordary department of the permit in accordance and maintaining and maintaining the required water the system for managerian and maintain and maintain accordance a	quality as determined by the intenance, repair, or other penance frequencies in accor	all be supplied wing: hipponents. he Authority I burposes.	d to the <i>build</i> Having Jurisa	ing owner by th	
15-P16	Dave Cantrell	UPC 1501.7	Minimum water quality				
mee <i>Juri</i> guid Exc	t the applicable wate sdiction. In the abser lelines to assist reguleption: Water treatm	r quality requirem nce of water qualit atory agencies dev nent is not required	ements. The minimum water that for the intended applicated applicated to the entry requirements, the EPA/62 welop, revise, or expand altered for gray water used for suddisinfected, and consistent applications.	eation as deter 25/R-04/108 cernate water subsurface irrig	mined by the contains recordenies water of the contains at the	Authority Havi nmended water quality standard eatment for gray	ng reuse ls. water
	D O Y Y	UPC 1501.7	Minimum water				
	DOH 1.7 Minimum Wate		quality	er quality for	alternate wat	er source systei	ms <i>shall</i> meet
150 the a Juri	1.7 Minimum Wate applicable water qual sdiction. In the abser lelines to assist regul	r Quality Require lity requirements f nce of water qualit atory agencies dev		as determined 25/R-04/108 c ernate water s	d by the <u>public</u> contains record cource water of	<u>c health</u> Author nmended water	ity Having reuse
150 the a Juri guid	1.7 Minimum Wate applicable water qual sdiction. In the abser lelines to assist regul	r Quality Require lity requirements f nce of water qualit atory agencies dev	quality ements. The minimum watefor the intended application by requirements, the EPA/62 yelop, revise, or expand alto	as determined 25/R-04/108 c ernate water s	d by the <u>public</u> contains record cource water of	<u>c health</u> Author nmended water	ity Having reuse
150 the a Juri guid Exe 15-P18 150 separun whe this insta	1.7 Minimum Wate applicable water qual sdiction. In the abser lelines to assist reguleption: Water treatment Dave Cantrell 1.12 Separation Required from the builder or laid in the same true both pipe material requirement the minimalled at an elevation as y water may be used	r Quality Required the requirements of water quality agencies developed the required to the requirement is not required to the requirements. Under the requirements are approved for imum separation of above the treated requirements.	quality ements. The minimum water the intended application by requirements, the EPA/62 welop, revise, or expand altered for gray water used for surface Greywater —	as determined 25/R-04/108 cernate water subsurface irrigurce service ped nonpotable 05 mm) minimates (1524 mm) within residen	by the publication tains recording other the water pipes num vertical piping mater potable. The potable tail property of the p	c health Author nmended water quality standard an gray water s shall be permitt and horizontal rials do not com e water piping s	shall be separation ply with shall be
150 the a Juri guid Exe 15-P18 150 separun whe this insta Graywhe	1.7 Minimum Wate applicable water qual sdiction. In the abser lelines to assist reguleption: Water treatment Dave Cantrell 1.12 Separation Required from the builder or laid in the same true both pipe material requirement the minimalled at an elevation as y water may be used	r Quality Required the requirements of water quality agencies developed the required to the requirement is not required to the requirements. Under the requirements are approved for imum separation of above the treated requirements.	quality ements. The minimum water for the intended application by requirements, the EPA/62 welop, revise, or expand alternate used for sure dates where the control of the	as determined 25/R-04/108 cernate water subsurface irrigurce service ped nonpotable 05 mm) minimates (1524 mm) within residen	by the publication tains recording other the water pipes num vertical piping mater potable. The potable tail property of the p	c health Author nmended water quality standard an gray water s shall be permitt and horizontal rials do not com e water piping s	shall be separation ply with shall be
the a Juri guid Exe 15-P18 150 separun whe this insta Gray whee 15-P19 150 remains a separun whee this insta Gray whee this Gray whee Gray whee this Gray whee the Gray whee this Gray whee this Gray whee this Gray whee this Gray whee the Gray whee this Gray whee G	1.7 Minimum Wate applicable water qual sdiction. In the abser lelines to assist reguleration: Water treatment of the properties of the pro	r Quality Required that requirements of water quality agencies deviced by the requirement is not required to 1501.12 Quirements. Under the requirement is not requirements. Under the requirement in accordance as potable was are approved for imum separation subove the treated representation of the readed pot have access to the theorem that the readed plugged, and described by the readed plugged, and described plugged, and described the requirements.	quality ements. The minimum water for the intended application by requirements, the EPA/62 yelop, revise, or expand alternate used for sure dance with this code. Treat atter pipes with a 12 inch (3 r use within a building. Whe shall be increased to 60 inchange to a building with the plumbing system for reputation.	as determined 25/R-04/108 cernate water subsurface irrigurce service ped nonpotable 05 mm) minimates (1524 mm) within residentairs or modification of the scope o	iping other the water pipes mum vertical piping mater). The potable tial property ocations.	c health Author mmended water quality standard an gray water s shall be permitt and horizontal rials do not com e water piping s or dwelling unit	shall be separation ply with shall be s, but only

1503.1 General. The provisions of this section *shall* apply to the installation, construction, alteration, and repair of reclaimed (recycled) water systems intended to supply uses such as water closets, urinals, *trap primers* for floor *drains* and floor sinks, aboveground and subsurface irrigation, industrial or commercial cooling or air conditioning and other uses *approved* by the *Authority Having Jurisdiction*. Reclaimed water must meet the minimum technology-based treatment and reliability standards required for the use authorized. The authorized uses of reclaimed water shall be listed in the use management plan in the permit issued to the reclaimed water generator by the state of Washington. No other uses shall be allowed, unless approved in an amended permit issued by department of ecology or department of health and allowed by the reclaimed water generator or supplier, or otherwise allowed under state rules for reclaimed water.

15-P21	DOH	UPC 1504.1	Onsite treated – General				
treat	ted nonpotable water	r systems intended	ction <i>shall</i> apply to the install to supply uses such as wat and other uses <i>approved</i> by	er closets, uri	nals, <i>trap pri</i>	mers for floor d	
15-P22	DOH	UPC 1504.7	Gray water – residential				

1504.7 On-Site Treated Nonpotable Water Devices and Systems. Devices or equipment used to treat on site treated nonpotable water for on-site use in order to maintain the minimum water quality requirements determined by the Authority Having Jurisdiction shall be listed or labeled (third-party certified) by a listing agency (accredited conformity assessment body) or approved for the intended application. Devices or equipment used to treat gray water or sewage to on site treated nonpotable water for use in water closet and urinal flushing, surface irrigation, and similar applications shall be listed or labeled to NSF 350 oxidize, coagulate, filter and disinfect the gray water or sewage, and be consistent at all times with Washington Class A reclaimed water or better or and be approved by the Authority Having Jurisdiction.

fin. water quality

1504.10.2 Minimum Water Quality. *On-site treated nonpotable water* supplied to toilets or urinals or for other uses in which it is sprayed or exposed *shall* be disinfected. Acceptable disinfection methods *shall* include chlorination, ultraviolet sterilization, ozone, or other methods as *approved* by the *Authority Having Jurisdiction*. The minimum water quality after treatment for use in water closet and urinal flushing, surface irrigation, and similar applications shall be the effluent criteria listed in NSF 350, or better The minimum water quality for *on site treated nonpotable water* systems *shall* meet the applicable water quality requirements for the intended applications as determined by the *public* health *Authority Having Jurisdiction*.

15-P24	DOH	UPC 1601.11	Rainwater catchment		
			- abandonment		

1601.11.1 General. An abandoned system or part thereof covered under the scope of this chapter *shall* be disconnected from remaining systems, drained, plugged, and capped in an *approved* manner. <u>Components of the abandoned system including but</u> not limited to pipe, tubing, fittings, and valves shall not be used for potable water systems.

15-P25	DOH	UPC	Potable rainwater		
		Appendix K	catchment		

Strike Appendix K

Portions of this Appendix are in conflict with Washington State and federal (40 CFR 141) regulations. The state regulations include those for Group A Public Water Supplies (Chapter 246-290 WAC) and Group B Public Water Supplies (Chapter 246-291 WAC), and the federal regulations include the National Primary Drinking Water Regulations (40 CFR Part 141). Specific issues include the following:

• The scope of this section is outside the normal jurisdiction of the Uniform Plumbing Code since following this section would create public water systems subject to State regulation. There are numerous requirements of public water

systems that are simply not addressed by this section. However, the construct of this section gives the reader the false impression that it is a comprehensive overview of the requirements for creating a public water system.

- A definition of a public water system is not provided in Section 218.
- A dentition of a private water system is not provided in Section 218.
- The minimum water quality requirements in Table K 104.2(1) and Table K 104.2(2) redefine the sampling requirements for public water systems and are impractical.

15-P26 Chuck Murray UPC New Appendix Local conservation	
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APPENDIX (NEW AA) Water Efficiency and Conservation

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

AA 101 General

AA 101.1 Scope. The provisions of this appendix establish the means of conserving potable and non-potable water used in and around a building.

AA 102.0 Water-Conserving Plumbing Fixtures and Fittings

AA 102.1 General. The maximum water consumption of fixtures and fittings shall comply with the flow rates specified in Table 402.1 and Section 402.2, through Section 402.9 of the 2012 Green Plumbing and Mechanical Code Supplement, as published by the International Association of Plumbing and Mechanical Officials.

	Christopher Young	UPC 301.2/	IPC as allowable alternate				
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301.2 Alternate Materials and Methods of Construction Equivalency.

Nothing in this code is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, fire resistance, effectiveness, durability, and safety over those prescribed by this code. Technical documentation shall be submitted to the Authority Having Jurisdiction to demonstrate equivalency. The Authority Having Jurisdiction shall have the authority to approve or disapprove the system, method, or device for the intended purpose.

Exception: The 2015 International Plumbing Code is recognized as a statewide preapproved alternate method for installing plumbing and plumbing systems and shall be permitted to be used. The application for permit and the construction documents shall note the use of the International Plumbing Code. Provisions of the Uniform Plumbing Code and the International Plumbing Code shall not be combined or interchanged unless approved by the Administrative Authority Having Jurisdiction.

TAG Review Report Guide

Policies Criteria

WAC 51-04-020 Policies for the consideration of proposed state-wide amendments

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

Objectives Criteria

RCW 19.27.020 Purposes--Objectives--Standards.

- (A) To require minimum performance standards and requirements for construction and construction materials, consistent with accepted standards of engineering, fire and life safety.
- (B) To require standards and requirements in terms of performance and nationally accepted standards.
- (C) To permit the use of modern technical methods, devices and improvements.
- (D) To eliminate restrictive, obsolete, conflicting, duplicating and unnecessary regulations and requirements which could unnecessarily increase construction costs or retard the use of new materials and methods of installation or provide unwarranted preferential treatment to types or classes of materials or products or methods of construction.
- (E) To provide for standards and specifications for making buildings and facilities accessible to and usable by physically disabled persons.
- (F) To consolidate within each authorized enforcement jurisdiction, the administration and enforcement of building codes.

Economic Impact

+	Increases cost	FC	First Cost
_	Decreases cost	OC	Ongoing Cost
SBI	Small Business Impact	EC	Enforcement
	_		Cost

Recommendation

AS	Approval as Submitted
D	Disapproval
AM	Approval with Modifications (see attached)
AO	Approval with Options (see attached)